

# Preliminary Data Status for SLR Vulnerability Assessment

	Asset Inventory Complete	Layer	Infra-structure Group	Society and Economy	Natural Resources	Data Status	Agency Data Source
Infrastructure  These GIS layers will be used to assess the exposure of facilities and infrastructure that are critical to residents of Delaware on a daily basis and in on an emergency basis.	●	Schools (K-16)	X			1	Dept. of Education
	●	Fire and Rescue stations	X	X		1	US Homeland Security-HSIP Freedom
	●	Police stations	X	X		1	
	●	Communication/cell towers	X	X		1	Federal Communications Commission
	○	Telephone switching stations	X			0	
	○	Roads	X	X		1	DeIDOT Centerlines
	○	Bridges	X	X		1	DeIDOT Centerlines
	○	Bus Routes	X			1	DART
	●	Airports	X			1	HSIP Freedom (DHS); DeIDOT - Aviation
	●	Railroads - Stations/Lines/Holding areas	X			1	HSIP Freedom (DHS)-Tranist Lines and Stations
	○	Ports and Ferry Terminals	X	X		0	
	●	sewer pump stations	X	X	X	1	Kent County Engineering, New Castle County Special Sercvies and Sussesex County GIS
	●	sewer lines	X	X	X	1	Kent County Engineering, New Castle County Special Sercvies (no Sussex data)
	●	sewer treatment facilities (WWTP)	X	X	X	1	Kent County Engineering, New Castle County Special Sercvies (no Sussex data)
	○	CSOs	X			0	
	○	spray irrigation fields	X			0	
	○	community treatment facilities	X			0	
	○	public drinking water wells	X	X		0	DNREC-Water Resources
	○	Electric generation/distribution	X			2	
	●	Hospitals and medical facilities	X	X		1	HSIP Freedom (DHS)
	●	Emergency Operation Centers	X	X		1	DEMA
	○	Emergency Shelters	X			2	UofD - John Laznik
	●	Evacuation Routes	X			1	DeIDOT
	○	Pipelines	X			0	
	○	Water Supply Intakes	X			0	
	○	School Bus Storage	X			0	
	○	DeIDOT Maintenance Yards	X			0	
	●	Navigation Aids	X			1	HSIP Freedom (DHS)
	●	Correctional Facilities	X			1	
	●	National Guard Facilities	X			1	HSIP Freedom (DHS)
	●	Day Care centers	X			1	
	○	Senior Centers	X			2	UofD - John Laznik
	○	Nursing Homes	X			2	UofD - John Laznik
	●	Refineries	X	X		1	
	●	Factories	X	X		1	
	●	SIRB (superfund,HSCA)	X	X		1	DNREC mapservice
	●	Leaking Underground Storage Tanks	X			1	DNREC mapservice
	●	Underground Storage Tanks	X			1	DNREC mapservice
	●	Brownfields	X			1	DNREC mapservice
	○	Waste Processing Plants/Recycling Facilities	X	X		2	DNREC mapservice
	●	Salvage Yards	X			1	DNREC mapservice
	●	Haz Waste Generator	X			1	DNREC mapservice
	●	Landfills	X	X		1	DNREC network shares
	○	Marinas and Boat Launches	X			0	
	○	Dams and Spillways	X	X		0	
	○	Dikes, Dams and Levees	X			1	
	○	Tide Gates	X			2	
	○	Tide Gauges	X			2	
	○	Public Utilities	X	X		0	
	○	Private Utilities	X	X		0	
	○	Wind Generation	X			0	
	○	Cemetaries	X			0	
	●	Government Buildings	X			1	

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Economy & Community Analysis							
These GIS layers will be used to assess the exposure of sensitive populations and the economic sector to sea level rise	●	Poverty Status - Persons above or below poverty line		X		1	NOAA STICS - 2000 Census
	○	Age - Persons in certain age groups		X		1	NOAA STICS - 2000 Census
	●	Population - Persons (Total, white, black, NA, Asian, Pacific, Other, 2+)		X		1	NOAA STICS - 2000 Census
	●	Household Language - Persons 5 and over (English, Spanish, Other)		X		1	NOAA STICS - 2000 Census
	●	Education Attainment - Persons 25 and over (Less than 12th, High School Grad, Some college/Associates Degree, Bachelors/Graduate Degree		X		1	NOAA STICS - 2000 Census
	●	Housing Units - Occupancy/Vacancy		X		1	NOAA STICS - 2000 Census
	●	Housing Units - Owner/Renter Occupied		X		1	NOAA STICS - 2000 Census
	●	Automobiles - Occupied housing Units with vehicle available (1, 2, 3 or more)		X		1	NOAA STICS - 2000 Census
	●	Housing Units -Housing Units in mobile homes, trailers, others		X		1	NOAA STICS - 2000 Census
	○	Income - Median Household and Per Capita		X		1	NOAA STICS - 2000 Census
	●	Families w/ Female Head & Children < 18		X		1	NOAA STICS - 2000 Census
	●	Families w/ children < 18		X		1	NOAA STICS - 2000 Census
	○	Delaware Environmental Justice Communities		X		1	WILMAPCO (2000 Census)
	○	CZ Heavy Industrial Sites		X		1	DNREC-CZM
	●	Land use		X		1	datamil.delaware.gov
	○	Zoning		X		0	
	○	Large Employers		X		3	
	○	Employment by Economic Sector		X		3	
	○	Annual Payroll by Sector		X		3	
	○	Annual Sales		X		3	
	○	Receipts		X		3	
	○	Shipments by Sector		X		3	
	○	Rental Properties		X		3	
	○	Tourist Destinations		X		3	
	○	Building Footprints		X		3	
	○	Residential Homes		X		3	
	○	Built and not built areas		X		3	
	○	Developed and non-deveolopable		X		3	
	●	Impermeable Surfaces		X	X	1	
	○	Water Franchises		X		0	
	○	Special Overlay Zones		X		0	
	○	Current Inundation Areas		X		1	
	○	Saltwater Intrusion Areas		X		3	
	○	Floor Elevation Levels		X		3	
	○	DNREC Facilities-parks, beaches	X	X		2	
	○	USGS [FEMA??] floodplains		X		0	
	○	Maps where insurance is available		X		0	
	○	Recurring Damage Claims		X		0	
	○	Rating Schedules		X		0	
	○	Data for buildings that have made claims		X		0	
	○	"Pre-FIRM" maps		X		0	
	○	Date structure was built		X		2	
	○	Tax Assessment Data		X		2	
	○	911 addressing		X		2	
	○	Commercial Buildings		X		2	
	○	Water Dependent Businesses		X		3	
	○	Employment, revenue, tax		X		3	
	○	Affordable Housing communities		X		0	
	○	Senior Housing		X		0	
	○	Zip Codes		X		1	
	●	Ag Data - acreage and crop/animal types and economic impact		X		1	Dept of Ag, Ed Ratledge-UD, DEDO, Conservation districts Productive Soils data from USDA
	○	Ag facilities/infrastructure		X		0	
	○	Manure Sheds		X		0	

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<input type="radio"/>	Buffer Regs		X		0	
<input type="radio"/>	Tax Ditches		X		2	
<input type="radio"/>	Irrigation systems/shallow wells		X		0	

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Natural Resource Analysis							
These GIS layers will be used to assess the exposure of natural resources and environmentally sensitive areas to sea level rise.	●	Agland Preservation/Easements		X	X	1	Del. Dept. of Agriculture
	●	Wetlands			X	1	DNREC-Watershed stewardship
	○	Endangered or Threatened Species Habitats			X	1	DNREC-Natural Heritage and Endangered Species Program
	○	State Protected Areas			X	1	DNREC mapservice
	●	Recharge Areas			X	1	DNREC mapservice
	●	State Planning Investment Layers		X	X	1	Office of State Planning Coordination
	●	Wellhead Protection Areas			X	1	J:\GISData\SWAPAreas
	○	Wildlands			X	1	DNREC network shares
	○	Statewide vegetation			X	1	DNREC-Natural Heritage and Endangered Species Program
	●	Historic and Cultural resources			X	1	DNREC network shares
	●	Natural Areas			X	1	DNREC network shares
	●	Key_wildlife_habitats			X	1	DNREC network shares
	●	Nature_Preserves			X	1	DNREC network shares
	○	Salt Line/Salt water intrusion		X	X	3	
	○	Coastal Impoundments			X	1	DNREC network shares
	●	Septic Systems			X	1	
	○	Depth to Water Table			X	0	
	○	Stormwater Management Structures			X	0	
	○	Public Access Sites (ORI2009)			X	1	DNREC network shares
	●	Conservation Easements			X	1	
	○	Turbidity, nutrient changes, salinity			X	3	
	○	Head of tide			X	3	
	○	Increased Extent of storm surges and habitat changes			X	3	
	○	Fisheries info, EFH, nursery habitat			X	0	
	○	Shellfish maps			X	0	
	○	Freshwater mussels			X	0	
	○	Site Specific species migration studies			X	3	
	○	Map physical barriers to wetland migration			X	3	
	○	Marsh Vulnerability Index			X	3	
	○	Model marsh response to SLR			X	3	
	○	Wetland to Forest migration maps from TNC			X	3	
	○	Economic Value of hunting and fishing			X	3	
Summary Info							
		Total Data Layers	141				
		Data Layers Collected	66				
	●	Data Layers Analyzed	50				
		Data Layers Pending	13				
		Data Layers Not Collected	36				
		Larger research needed	26				